CMS Simulation (LHE) 13 TeV Fraction of events / 1 GeV 80.0 $pp \rightarrow h \rightarrow 2n_{_{\scriptstyle 1}} \rightarrow 2n_{_{\scriptstyle D}} + 2~\gamma_{_{\scriptstyle D}} \rightarrow 2n_{_{\scriptstyle D}} + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_2} = 1 \text{ GeV}$ 0.07 $m_{\gamma_0} = 0.275 \text{ GeV}, c\tau_{\gamma_0} = 0.2 \text{ mm}$ 1st dark photon (leading p_T) 0.06 2nd dark photon 0.05 0.04 0.03 0.02 0.01 10 20 30 40 50 60 80 90 100